

PTO/SB/17 (12-04v2)  
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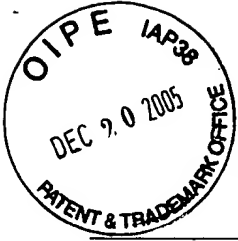
|  |                    |                          |                        |
|--|--------------------|--------------------------|------------------------|
| <b>Effective on 12/08/2004.</b><br>Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). |                    | <b>Complete if Known</b> |                        |
| <b>FEE TRANSMITTAL</b><br><b>For FY 2005</b>   |                    | Application Number       | 09/559,175-Conf. #2265 |
|  |                    | Filing Date              | April 27, 2000         |
|  |                    | First Named Inventor     | Wataru MATSUMOTO       |
|  |                    | Examiner Name            | K. C. Harper           |
|  |                    | Art Unit                 | 2666                   |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27                             |                    | Attorney Docket No.      | 2611-0125P             |
| <b>TOTAL AMOUNT OF PAYMENT</b>   | <b>(\$)</b> 180.00 |                          |                        |

|   |   |
|---|---|
| <b>METHOD OF PAYMENT</b> (check all that apply)   |   |
| <input checked="" type="checkbox"/> Check   | <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> None <input type="checkbox"/> Other (please identify): _____ |
| <input type="checkbox"/> Deposit Account  | Deposit Account Number: <b>02-2448</b> Deposit Account Name: <b>Birch, Stewart, Kolasch &amp; Birch, LLP</b>  |
| For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)                |   |
| <input type="checkbox"/> Charge fee(s) indicated below  | <input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee   |
| <input checked="" type="checkbox"/> Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17 | <input checked="" type="checkbox"/> Credit any overpayments   |

**FEE CALCULATION**

|   |                     |   |                      |                     |                                  |                       |                       |
|---|---------------------|---|----------------------|---------------------|----------------------------------|-----------------------|-----------------------|
| <b>1. BASIC FILING, SEARCH, AND EXAMINATION FEES</b>  |                     |   |                      |                     |                                  |                       |                       |
|   | <b>FILING FEES</b>  |   | <b>SEARCH FEES</b>   |                     | <b>EXAMINATION FEES</b>          |                       |                       |
|   |                     | <b>Small Entity</b>                                     |                      | <b>Small Entity</b> |                                  | <b>Small Entity</b>   |                       |
| <b>Application Type</b>   | <b>Fee (\$)</b>     | <b>Fee (\$)</b>   | <b>Fee (\$)</b>      | <b>Fee (\$)</b>     | <b>Fee (\$)</b>                  | <b>Fee (\$)</b>       | <b>Fees Paid (\$)</b> |
| Utility   | 300                 | 150   | 500                  | 250                 | 200                              | 100                   |                       |
| Design  | 200                 | 100   | 100                  | 50                  | 130                              | 65                    |                       |
| Plant   | 200                 | 100   | 300                  | 150                 | 160                              | 80                    |                       |
| Reissue   | 300                 | 150   | 500                  | 250                 | 600                              | 300                   |                       |
| Provisional   | 200                 | 100   | 0                    | 0                   | 0                                | 0                     |                       |
| <b>2. EXCESS CLAIM FEES</b>   |                     |   |                      |                     |                                  |                       |                       |
|   |                     |   |                      |                     |                                  | <b>Small Entity</b>   |                       |
| <b>Fee Description</b>  |                     |   |                      |                     |                                  | <b>Fee (\$)</b>       | <b>Fee (\$)</b>       |
| Each claim over 20 (including Reissues)   |                     |   |                      |                     |                                  | 50                    | 25                    |
| Each independent claim over 3 (including Reissues)  |                     |   |                      |                     |                                  | 200                   | 100                   |
| Multiple dependent claims   |                     |   |                      |                     |                                  | 360                   | 180                   |
| <b>Total Claims</b>   | <b>Extra Claims</b> | <b>Fee (\$)</b>   | <b>Fee Paid (\$)</b> |                     | <b>Multiple Dependent Claims</b> |                       |                       |
| _____ - 20 = _____  | x _____             | = _____   |                      |                     | <b>Fee (\$)</b>                  | <b>Fee Paid (\$)</b>  |                       |
| <b>Indep. Claims</b>  | <b>Extra Claims</b> | <b>Fee (\$)</b>   | <b>Fee Paid (\$)</b> |                     |                                  |                       |                       |
| _____ - 3 = _____   | x _____             | = _____   |                      |                     |                                  |                       |                       |
| <b>3. APPLICATION SIZE FEE</b>  |                     |   |                      |                     |                                  |                       |                       |
| If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). |                     |   |                      |                     |                                  |                       |                       |
| <b>Total Sheets</b>   | <b>Extra Sheets</b> | <b>Number of each additional 50 or fraction thereof</b> |                      | <b>Fee (\$)</b>     | <b>Fee Paid (\$)</b>             |                       |                       |
| _____ - 100 = _____   | /50                 | _____ (round up to a whole number) x _____              |                      | = _____             |                                  |                       |                       |
| <b>4. OTHER FEE(S)</b>  |                     |   |                      |                     |                                  |                       |                       |
| Non-English Specification \$130 fee (no small entity discount)  |                     |   |                      |                     |                                  | <b>Fees Paid (\$)</b> |                       |
| Other (e.g., late filing surcharge): 1806 Submission of an Information Disclosure Statement   |                     |   |                      |                     |                                  | 180.00                |                       |

|                     |                     |                                   |                   |
|---------------------|---------------------|-----------------------------------|-------------------|
| <b>SUBMITTED BY</b> |                     |                                   |                   |
| Signature           |                     | Registration No. (Attorney/Agent) | 40,439            |
| Name (Print/Type)   | D. Richard Anderson | Telephone                         | (703) 205-8000    |
|                     |                     | Date                              | December 20, 2005 |



Docket No.: 2611-0125P  
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Plant Application of:  
Wataru MATSUMOTO et al.

Application No.: 09/559,175

Confirmation No.: 2265

Filed: April 27, 2000

Art Unit: 2666

For: BIT ASSIGNMENT IN A COMMUNICATION  
SYSTEM AND COMMUNICATION METHOD

Examiner: K. C. Harper

**INFORMATION DISCLOSURE STATEMENT**  
**(SUBMISSION AFTER FILING OF AN APPLICATION BUT BEFORE FINAL**  
**REJECTION OR NOTICE OF ALLOWANCE OR CONCURRENTLY WITH A RULE**  
**1.114 RCE APPLICATION)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on the PTO-SB08(s), attached hereto.

12/21/2005 JADD01 00000039 09559175

01 FC:1006

100.00 0P

II. COPIES

- ☒ a. Copies of cited U.S. patents and patent application publications are not included.  
Copies of foreign patent documents and non-patent literature are included.

☐ b. Some or all of the documents listed on the PTO-SB08 are not enclosed because they were cited in the International Search Report and copies should already be in the PTO file. If copies are needed, please contact the undersigned.

☐ c. REFERENCES PREVIOUSLY CITED OR SUBMITTED - Pursuant to 37 C.F.R. §1.98(d), consideration of information listed on the PTO-SB08 form(s) is requested since any patents, publications, or other information which are listed on the PTO-SB08 form(s) but for which copies are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Appl. No(s) and U.S. Filing Date

III. CONCISE EXPLANATION OF THE RELEVANCE

(check at least one box)

☒ a. DOCUMENTS IN THE ENGLISH LANGUAGE - The patents, publications, or other information listed on the attached PTO SB08 are in the English language and therefore, do not require a statement of relevancy.

☒ b. DOCUMENTS NOT IN THE ENGLISH LANGUAGE - A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows: These documents were cited in co-pending U.S. Application No. 10/825,304. An English language abstract is provided for each of these documents.

☐ c. ENGLISH LANGUAGE SEARCH REPORT - An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(III)(A)(3).

☐ d. OTHER - The following additional information is provided for the Examiner's consideration.

IV. FEES (check one box)

☐ a. This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required.

☐ b. This Information Disclosure Statement is being filed concurrent with the filing of a continuation-in-part, continuation, or divisional patent application; therefore, no fee is required.

☐ c. This Information Disclosure Statement is being filed within three months of the filing date of a national application (37 C.F.R. § 1.97(b)(1)). No fee or statement is required.  
*(This section is not to be used with RCE's.)*

☐ d. This Information Disclosure Statement is being filed within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or statement is required.

☐ e. This Information Disclosure Statement is being filed concurrently with the filing of a Request for Continued Examination under § 1.114 (37 C.F.R. § 1.97(b)(4)). No fee or statement is required.

☐ f. This Information Disclosure Statement is being filed before the mailing date of a first Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or statement is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the statement under 37 C.F.R. § 1.97(e) below, or, if no statement has been made, charge our deposit account for the fee as required by 37 C.F.R. § 1.17(p).

☒ g. This Information Disclosure Statement is being filed before the mailing date of a Final Office Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c)(1)) or before the mailing date of a Notice of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c)(2)).

☐ No statement; therefore, a fee as required by 37 C.F.R. § 1.17(p) is attached.

or

☐ See the statement below. No fee is required.

V. STATEMENT UNDER 37 C.F.R. § 1.97(e)

(check only one box)

The undersigned hereby states that:

☐ a. Each item of information contained in the IDS was first cited in any communication from a foreign Patent Office in a counterpart foreign application not more than 30 days prior to the filing of this IDS; or

☐ b. Each item of information contained in the IDS was first cited in any communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS; or

☐ c. No item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of the IDS.

☐ d. Some of the items of information were cited in a communication from a foreign Patent Office. As to this information, the undersigned states that each item of information contained in the IDS was first cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby states that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application and, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

VI. PAYMENT OF FEES (check one box)

☒ The required fee is listed on the attached Fee Transmittal.

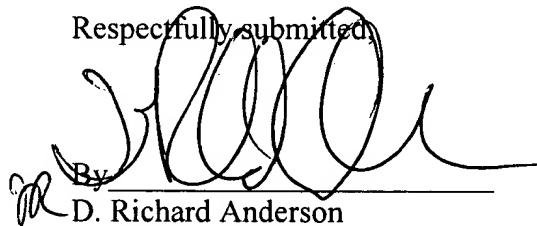
☐ No fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 02-2448.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to our Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Dated: December 20, 2005

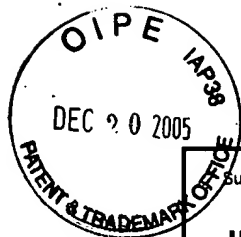
Respectfully submitted,



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Attorney for Applicant

Attachment(s):

- ☒ PTO-SB08
- ☒ Documents
- ☐ Foreign Search Report
- ☒ Fee
- ☐ Other:



PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

|   |   |    |   |                          |                        |
|---|---|----|---|--------------------------|------------------------|
| <b>Substitute for form 1449A/B/PTO</b><br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary) |   |    |   | <b>Complete if Known</b> |                        |
|   |   |    |   | Application Number       | 09/559,175-Conf. #2265 |
|   |   |    |   | Filing Date              | April 27, 2000         |
|   |   |    |   | First Named Inventor     | Wataru MATSUMOTO       |
|   |   |    |   | Art Unit                 | 2666                   |
|   |   |    |   | Examiner Name            | K. C. Harper           |
| Sheet   | 1 | of | 1 | Attorney Docket Number   | 2611-0125P             |

| U.S. PATENT DOCUMENTS |                          |  |                                |  |   |
|-----------------------|--------------------------|--|--------------------------------|--|---|
| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                       |                          | Number-Kind Code <sup>2</sup> (if known) |                                |  |   |
|                       | AA*                      | US-6,782,005                             | 08-24-2004                     | Matsumoto et al.                                   |   |
|                       | AB*                      | US-6,480,475                             | 11-12-2002                     | Modlin et al.                                      |   |
|                       | AC*                      | US-6,233,251                             | 05-15-2001                     | Kurobe et al.                                      |   |

| FOREIGN PATENT DOCUMENTS |                          |   |                     |  |   |                |
|--------------------------|--------------------------|---|---------------------|--|---|----------------|
| Examiner<br>Initials*    | Cite<br>No. <sup>1</sup> | Foreign Patent Document   | Publication<br>Date | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear | T <sup>6</sup> |
|                          |                          | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) | MM-DD-YYYY          |  |   |                |
|                          |                          |   |                     |  |   |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

| NON PATENT LITERATURE DOCUMENTS |                          |   |                |
|---------------------------------|--------------------------|---|----------------|
| Examiner<br>Initials            | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|                                 | CA                       | Kiyoshi Hamaguchi et al., "Laboratory Experiments of an Adaptive Modulation-level Controlled QAM System for Land Mobile Communications," Technical Report of IEICE, Vol. 96, No. 354, pp. 51-56 (1996)  |                |
|                                 | CB                       | Hiroshi Okado et al., "A Study on ADSL System for TCM-ISDN crosstalk", IEICE, pg. 403 (1998)  |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

Birch, Stewart, Kolasch &amp; Birch, LLP

DRA/JWR/az